

Date: Fri, 22 Jan 93 10:10:16 PST  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #95  
To: Info-Hams

Info-Hams Digest                      Fri, 22 Jan 93                      Volume 93 : Issue    95

Today's Topics:

                    Coax voltage - How to computer?  
                    DESPERATELY SEEKING AIR VARIABLE CAPACITORS  
                    illegals (was: Re: Radio Shack Business Band Radio)  
                                New Ham! Need Radio!  
                    operating abroad/ HR in Vietnam?  
                                ORBS\$023.2liners  
                    Re: writing out -- --- .-. ... . in order to pass your exam  
Three Minute Morse (Re: writing out -- --- .-. ... . in order to pass)  
                                YAESU FT767GX HF/6/2 for \$875 shipped

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

-----  
Date: Fri, 22 Jan 1993 14:49:38 GMT  
From: usc!sdd.hp.com!swrinde!emory!rsiatl!ke4zv!gary@network.UCSD.EDU  
Subject: Coax voltage - How to computer?  
To: info-hams@ucsd.edu

In article <C17KuI.2IB@ms.uky.edu> hgpeach@ms.uky.edu (Harold G. Peach, Jr.)  
writes:

>A recent posting regarding voltage on twin-lead prompted me to ask  
>a question I have had for some length of time: How do you compute  
>the transmitted voltage on a coax, given the power? You have  
>the impedance of the coax to work with, but some ham friends have  
>told me SQRT(RP) adjusted for RMS does not yield an accurate transmitted  
>voltage or current.

This will only work if the VSWR on the line is 1:1, a rather rare occurrence.

Gary

--

|                             |  |              |  |                          |
|-----------------------------|--|--------------|--|--------------------------|
| Gary Coffman KE4ZV          |  | You make it, |  | gatech!wa4mei!ke4zv!gary |
| Destructive Testing Systems |  | we break it. |  | uunet!rsiatl!ke4zv!gary  |
| 534 Shannon Way             |  | Guaranteed!  |  | emory!kd4nc!ke4zv!gary   |
| Lawrenceville, GA 30244     |  |              |  |                          |

-----

Date: Fri, 22 Jan 1993 14:56:53 GMT  
From: usc!sdd.hp.com!swrinde!emory!rsiatl!ke4zv!gary@network.UCSD.EDU  
Subject: DESPERATELY SEEKING AIR VARIABLE CAPACITORS  
To: info-hams@ucsd.edu

In article <1993Jan21.131055.5563@klaava.Helsinki.FI> stickler@klaava.Helsinki.FI  
(Patric M Stickler) writes:

>I am trying to locate some surplus air variable capacitors for use in a  
>transmatch. They only have to be able to handle around 150 watts, and can be  
>of any age/make as long as they are functional/reliable.

>

>I need one (1) 200pF and one (1) dual 200pF capacitor.

>

>I also would be interested in some ceramic switches, 3-4 position double  
>pole, and 8-15 position single or double pole.

>

>Any help in locating these will be \*greatly\* appreciated.

A company called Radiokit in New Hampshire carried these in their  
catalog a couple of years ago. Radiokit, PO Box 973, Pelham, NH 03076.

Gary

--

|                             |  |              |  |                          |
|-----------------------------|--|--------------|--|--------------------------|
| Gary Coffman KE4ZV          |  | You make it, |  | gatech!wa4mei!ke4zv!gary |
| Destructive Testing Systems |  | we break it. |  | uunet!rsiatl!ke4zv!gary  |
| 534 Shannon Way             |  | Guaranteed!  |  | emory!kd4nc!ke4zv!gary   |
| Lawrenceville, GA 30244     |  |              |  |                          |

-----

Date: 22 Jan 93 14:59:41 GMT  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!spool.mu.edu!yale.edu!  
newsserver.jvnc.net!netnews.upenn.edu!prijat!triangle.cs.uofs.edu!  
bill@network.UCSD.EDU  
Subject: illegals (was: Re: Radio Shack Business Band Radio)

To: info-hams@ucsd.edu

In article <1993Jan21.183435.1083@ryn.mro4.dec.com>, randolph@est.enet.dec.com (Tom Randolph) writes:

|>

|> In article <1993Jan20.125802.2749@vax1.mankato.msus.edu>, dj1@vax1.mankato.msus.edu writes...

|> >>

|> >Here is a RS flame but when I was in there the guy said:

|> >"No problem, just use it no liscense required!"

|>

|> Yah, this brings up something I've been wondering about. What are we, as hams, to do when something like this occurs?

|>

|> For instance, here in Massachusetts there is a local for sale/wanted magazine, one of the catagories of which is "radios and electronics". I very often see ads in there like:

|>

|> Acme 40 channel CB, modified for 100 channels and increased power. Call Joe 123-4567

|>

|> I'm extremely tempted to tear out the page, apply a highlighter, and forward it to the FCC. Comments, anyone?

The same ads can be seen in Pennysaver/PaperShop/WandAds all over the country. Do you honestly believe that the employees of the FCC lead such a sheltered life that they have never seen one of these rags??

I would think the most obvious answer is that they real don't care. If they did care, they could keep an army of agents busy running sting operations. All they have to do is answer the ad, go to the guys house, buy the item and bust him. But as I said, they don't care. And based on that you should be able to imagine where your gesture would end out if you actually did mail a copy to them.

bill KB3YV

--

|                  |   |
|------------------|---|
| Bill Gunshannon  | "There are no evil thoughts, Mr. Reardon" Francisco |
| bill@cs.uofs.edu | said softly, "except one; the refusal to think."    |
|                  | #include <std disclaimer.h>                         |

-----  
Date: Fri, 22 Jan 1993 15:20:07 GMT

From: usc!sdd.hp.com!swrinde!emory!rsiatl!ke4zv!gary@network.UCSD.EDU

Subject: New Ham! Need Radio!

To: info-hams@ucsd.edu

In article <1993Jan21.152246.1@levy.fnal.gov> levy@levy.fnal.gov writes:  
>Well, my license showed up yesterday (N9RXF), and I'm in need of a radio (I've  
>been lurking on the local repeaters with my scanner, I didn't see any point in  
>spending money on a xmitter until I could use it). I would like, to start out,  
>a dual-band HT covering 2 & 10 meters. Any good (but not necessarily  
>expensive) suggestions?

Congratulations on the license Mark. I don't think there *is* a HT that covers both 2 meters and 10 meters. Most cover 2 meters and 70 cm, with one or two that substitute 1.25 meters or 23 cm for 70 cm or 2 meters. While there *is* some FM activity on 10 meters, it's in the part of the band outside your license class. If I have your license class figured right, you are a coded Tech. If so, you need a SSB or CW radio for 10 meters and an FM radio for 2 meters. The only ones that come in the same box are the multimode rigs and they aren't HTs and all list new for well over \$1,000.

If you want to work those bands with HTs, you're going to need two radios. Any of the 2 meter HTs are OK. I like the older Icom rigs like the IC-2AT. A used one should sell for around \$100-\$150 depending on what accessories come with it. AEA, I think, used to sell a 10 meter SSB HT, but I think they discontinued it. Probably the best bet for a 10 meter rig is the Radio Shack unit now on closeout for \$199, but it's a mobile/base type radio and not a belt dragger. On the off chance that you really meant a 2 meter/70 cm dualband HT, I'd advise you to grab a FT-470 before they're all gone.

You also might want to read an earlier thread explaining why a HT is probably *not* a good choice for a first radio.

Gary

--

|                             |  |              |  |                          |
|-----------------------------|--|--------------|--|--------------------------|
| Gary Coffman KE4ZV          |  | You make it, |  | gatech!wa4mei!ke4zv!gary |
| Destructive Testing Systems |  | we break it. |  | uunet!rsiatl!ke4zv!gary  |
| 534 Shannon Way             |  | Guaranteed!  |  | emory!kd4nc!ke4zv!gary   |
| Lawrenceville, GA 30244     |  |              |  |                          |

-----

Date: 22 Jan 1993 17:16:47 GMT  
From: saimiri.primate.wisc.edu!srvr1.engin.umich.edu!ggbmac141.engin.umich.edu!  
davos@ames.arpa  
Subject: operating abroad/ HR in Vietnam?  
To: info-hams@ucsd.edu

I plan on traveling abroad in a couple of months and would like to bring a rig

along with me, but am unaware of what is required to operate in another country.

Does anyone know who one generally gets a license through (I am not sure where

I am going yet), and about how long it takes ?

Also, while I am at it, does anyone know if there is an amateur radio service in Vietnam?

Thanks,  
Alexander Slingeland (N8SPG)  
davos@engin.umich.edu

-----  
Date: 22 Jan 93 15:46:18 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: ORBS\$023.2liners  
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-023.N  
2Line Orbital Elements 023.AMSAT

HR AMSAT ORBITAL ELEMENTS FOR AMATEUR SATELLITES IN NASA FORMAT  
FROM N3FKV HEWITT, TX January 23, 1993 BID:\$ORBS-023.N

DECODE 2-LINE ELSETS WITH THE FOLLOWING KEY:

1 AAAAAU 00 0 0 BBBB.BBBBBBBB .CCCCCCC 00000-0 00000-0 0 DDDZ  
2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJKKKKKZ  
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN  
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

TO ALL RADIO AMATEURS BT

A0-10

1 14129U 83 58 B 93012.23943283 .00000013 00000-0 99998-4 0 9587  
2 14129 27.0159 45.9649 6022308 47.8186 348.5618 2.05862660 72059  
U0-11

1 14781U 84 21 B 93018.09801447 .000000562 00000-0 10396-3 0 3955  
2 14781 97.8270 51.0366 0012880 112.8535 247.4027 14.68829707474688  
RS-10/11

1 18129U 87 54 A 93020.43915885 .000000098 00000-0 99999-4 0 5310  
2 18129 82.9249 347.8131 0012685 13.8349 346.3145 13.72306411279589  
A0-13

1 19216U 88 51 B 93017.80781545 -.000000038 00000-0 99999-4 0 5570  
2 19216 57.3151 337.9799 7268514 306.3113 6.5866 2.09720877 35203  
F0-20

1 20480U 90 13 C 93020.19160350 .00000010 00000-0 52904-4 0 4367  
2 20480 99.0607 264.2542 0541500 61.8638 303.6090 12.83216534138333  
AO-21  
1 21087U 91 6 A 93020.71345881 .00000101 00000-0 99999-4 0 6791  
2 21087 82.9426 161.9563 0036839 72.5392 287.9779 13.74507307 99182  
RS-12/13  
1 21089U 91 7 A 93011.55744800 .00000039 00000-0 34790-4 0 3908  
2 21089 82.9220 38.2731 0030134 118.2489 242.1744 13.74011781 97017  
UO-14  
1 20437U 90 5 B 93020.20159941 .00000166 00000-0 72468-4 0 7122  
2 20437 98.6276 106.0754 0010598 258.9011 101.0980 14.29727708156286  
AO-16  
1 20439U 90 5 D 93018.24844793 .00000158 00000-0 69216-4 0 5419  
2 20439 98.6325 104.8939 0010961 268.7027 91.2899 14.29787375156010  
DO-17  
1 20440U 90 5 E 93016.22272524 .00000178 00000-0 76914-4 0 5431  
2 20440 98.6315 103.0533 0010830 273.4883 86.5060 14.29918799155731  
WO-18  
1 20441U 90 5 F 93016.75008970 .00000158 00000-0 69080-4 0 5458  
2 20441 98.6315 103.6118 0011400 272.0913 87.8964 14.29903662155819  
LO-19  
1 20442U 90 5 G 93018.72050830 .00000170 00000-0 73697-4 0 5420  
2 20442 98.6332 105.7156 0011996 266.5060 93.4752 14.29991574156105  
UO-22  
1 21575U 91 50 B 93021.72455528 .00000204 00000-0 76046-4 0 2411  
2 21575 98.4886 100.1074 0008391 19.7776 340.3734 14.36767856 79638  
KO-23  
1 22077U 92 52 B 93006.08586143 -.00000000 00000-0 99999-4 0 866  
2 22077 66.0809 303.5860 0013347 229.3565 130.6278 12.86275910 18999  
NOAA-9  
1 15427U 84123 A 93020.56094524 .00000144 00000-0 86595-4 0 2760  
2 15427 99.1214 58.0614 0014375 222.7185 137.2890 14.13476650417928  
NOAA-10  
1 16969U 86 73 A 93020.73549632 .00000157 00000-0 75515-4 0 1248  
2 16969 98.5248 40.0731 0013944 29.6467 330.5488 14.24756021329635  
MET-2/17  
1 18820U 88 5 A 93021.21307832 .00000070 00000-0 57263-4 0 8499  
2 18820 82.5420 315.8183 0015551 177.2153 182.9098 13.84669459251509  
MET-3/2  
1 19336U 88 64 A 93017.91798145 .00000043 00000-0 99999-4 0 179  
2 19336 82.5511 328.2883 0018112 107.3503 252.9638 13.16954563215435  
NOAA-11  
1 19531U 88 89 A 93020.86793058 .00000304 00000-0 18475-3 0 291  
2 19531 99.1132 353.8960 0012246 129.7828 230.4416 14.12814614222875  
MET-2/18  
1 19851U 89 18 A 93011.52641567 .00000065 00000-0 52312-4 0 7929  
2 19851 82.5195 199.8019 0013411 251.5302 108.4399 13.84316424195512  
MET-3/3

1 20305U 89 86 A 93020.09109621 .000000043 00000-0 99999-4 0 6929  
 2 20305 82.5589 269.3516 0017526 121.3565 238.9281 13.16009194155621  
 MET-2/19  
 1 20670U 90 57 A 93020.65406890 .000000057 00000-0 46138-4 0 5420  
 2 20670 82.5461 255.5572 0016355 141.9113 218.3205 13.84158111129718  
 FY-1/2  
 1 20788U 90 81 A 93021.95710410 .000000369 00000-0 26753-3 0 5052  
 2 20788 98.8769 52.4153 0014224 359.8404 0.2733 14.01275495122109  
 MET-2/20  
 1 20826U 90 86 A 93011.53490329 .000000069 00000-0 56814-4 0 5427  
 2 20826 82.5248 201.0042 0014360 69.2765 290.9929 13.83529972115621  
 MET-3/4  
 1 21232U 91 30 A 93010.99276195 .000000044 00000-0 99999-4 0 3445  
 2 21232 82.5434 178.8808 0018695 62.6945 297.6078 13.16815399 82633  
 NOAA-12  
 1 21263U 91 32 A 93020.78043551 .000000228 00000-0 12022-3 0 4814  
 2 21263 98.6742 53.4067 0012215 283.0145 76.9663 14.22187708 87698  
 MET-3/5  
 1 21655U 91 56 A 93015.47888673 .000000043 00000-0 99999-4 0 3922  
 2 21655 82.5542 122.3715 0014527 52.8262 307.4185 13.16813951 68327  
 MIR  
 1 16609U 86 17 A 93020.59111682 .00011807 00000-0 16029-3 0 8314  
 2 16609 51.6207 240.5731 0001429 276.2709 83.8804 15.58093450396117  
 HUBBLE  
 1 20580U 90 37 B 93019.36842511 .00001941 00000-0 17135-3 0 149  
 2 20580 28.4704 303.0440 0004515 282.2527 77.7543 14.92258500149260  
 GRO  
 1 21225U 91 27 B 93020.78069220 .00029405 00000-0 26053-3 0 7918  
 2 21225 28.4640 287.7528 0004855 252.2713 107.7363 15.67070140102046  
 SARA  
 1 21578U 91 50 E 93012.75892105 .000000879 00000-0 30368-3 0 3980  
 2 21578 98.4930 92.0097 0005632 55.9525 304.2195 14.38178459 78382  
 UARS  
 1 21701U 91 63 B 93019.26540755 -.000000453 00000-0 -28981-4 0 2388  
 2 21701 56.9836 58.3952 0004452 75.0880 285.0579 14.96563693 74004  
 FREJA  
 1 22161U 92 64 A 92365.58631514 .000000284 00000-0 18456-3 0 971  
 2 22161 63.0059 201.9500 0769497 267.8411 83.4390 13.21543263 11273  
 /EX

-----

Date: Fri, 22 Jan 1993 15:09:56 GMT  
 From: dog.ee.lbl.gov!overload.lbl.gov!agate!spool.mu.edu!howland.reston.ans.net!  
 paladin.american.edu!gatech!concert!rock!taco!csemail.cropsci.ncsu.edu!  
 samodena@network.UCSD.EDU  
 Subject: Re: writing out -- --- .-. ... . in order to pass your exam  
 To: info-hams@ucsd.edu

But this topic raises another question where I feel the ARRL (and other VECs, I guess) have possibly indifferent?





>In the one VE session I worked, one examinee copied in Sanskrit...

This is not hard to do at 5wpm. Here is the crib I devised a few years back...

-----  
Three Minute Morse  
by Alan W Paeth KD3XG/VE3AWP

This is a Morse Code crib sheet for technically inclined hams. Memorize it and you too can copy text at 5wpm or decypher fast repeater IDs. To use:

- (1) Copy down the dits and dahs on a scrap of paper for subsequent decoding.
- (2) Remember this mnemonic and write its acronym to reconstruct a binary tree:

E. T.  
Is A Nice Movie  
Some Unkind Reviewer Wrote: Dumb Kid Goes Odd  
Home Video Fun, (Smiles), Laughs (Alien);  
Put Just Behind X Characters Y, Z. Quit. (Over + Out).

|     |       |      |     |       |     |     |    |   |   |   |  |     |  |   |
|-----|-------|------|-----|-------|-----|-----|----|---|---|---|--|-----|--|---|
|     |       |      | E   |       |     |     |    |   | T |   |  |     |  |   |
|     | I     |      |     | A     |     |     | N  |   |   | M |  |     |  |   |
| S   |       | U    |     | R     |     | W   |    | D |   | K |  | G   |  | O |
| H V | F :-) | L Ae | P J | B X   | C Y | Z Q | 0e | - |   |   |  |     |  |   |
| 5 4 |       |      | 1   | 6 --/ |     |     |    |   |   |   |  | 9 0 |  |   |

- (3) To decode a letter having from one to four symbols, start on line one, choose "left" for dit and "right" for dah and move downwards. For instance, my Canadian call begins VE which is ". . . - .". The V has four symbols and decodes as "left (down) left (down) left (down) right", reaching the bottom row's second letter. The "E" is just one dit or "left" at the top.

Notes: The (Smiles), (Alien) and (Over) are the unlauted vowels ue, ae and oe. They are seldom heard. The four dah sequence is undefined (Out). Digits occupy a fifth row and are partially listed: five ". . . . ." falls along the leftmost path, visiting a similar "S" en route, similarly for "0" and "0". The fifth row contains to other common symbols: the slant-bar "/" and the double-dash.

-----  
73 de VE3AWP  
/Alan Paeth  
-----

Date: Fri, 22 Jan 1993 14:57:00 GMT  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!spool.mu.edu!yale.edu!  
newsserver.jvnc.net!darwin.sura.net!utkux1.utk.edu!utkvx3.utk.edu!  
rpadower@network.UCSD.EDU

Subject: YAESU FT767GX HF/6/2 for \$875 shipped  
To: info-hams@ucsd.edu

I have one excellent FT767GX Yaesu general coverage HF transceiver with 6 and 2 meters (installed optional modules). This is a great unit at a great price. Original shipping box, manuals. Email or telephone interest.

Randy Padawer  
RPADAWER@UTKVX.UTK.EDU  
(615) 637-7263

-----  
Randy Padawer      1721 Cumberland Av. #6B      Knoxville, TN    37916  
Telephone: (615) 637-7263    before 11 pm; leave message if not home.  
Internet: RPADAWER@UTKVX.UTK.EDU      or      GwRepRandy@AOL.COM  
Ham Radio Op: WA4FJF.    Ham Packet: WA4FJF @ N0ARY.#NOCAL.CA.USA.NA  
-----

-----  
Date: Fri, 22 Jan 1993 16:37:14 GMT  
From: usc!howland.reston.ans.net!sol.ctr.columbia.edu!eff!ssd.intel.com!ichips!  
hfglobe!zardoz@network.UCSD.EDU  
To: info-hams@ucsd.edu

References <fred-mckenzie-200193151838@k4dii.ksc.nasa.gov>,  
<1993Jan21.125436.4514@klaava.Helsinki.FI>, <fred-  
mckenzie-210193182431@k4dii.ksc.nasa.gov>  
Subject : Re: running 300-ohm twinlead thru wood

I have used 450 ohm plastic feedline with dipoles, veebeams, and end-fed zepps for years. I just open my double-hung wood frame window sash, shove the feedline through, and slam the window shut. I've run up to 700 watts into a Johnson Matchbox Jr. feeding this stuff with no arcing. Some RF in the shack however. Worst match is running 40 meters on a full size 80 meter dipole where tuning is tricky and a parallel tuner like the Matchbox doesn't quite cut it. But I've never had any arcing with dry wood or painted areas.

WA7LDV

-----  
Date: 22 Jan 93 16:22:13 GMT  
From: walter!porthos!dancer!whs70@uunet.uu.net  
To: info-hams@ucsd.edu

References <81109@hydra.gatech.EDU>, <1jmn9qINNl3d@slab.mtholyoke.edu>,  
<1993Jan22.150309.18633@newshost.lanl.gov>•

Subject : Re: Shareware/Public Domain Software for Theory Test

In article <1993Jan22.150309.18633@newshost.lanl.gov> tjf@beta.lanl.gov (Tom J Farish) writes:

>For Mac users, the Hypercard HamStacks (Novice through Extra)  
>can't be beat! They are available on several ftp sites.

Such as??????

Standard Disclaimer- Any opinions, etc. are mine and NOT my employer's.

-----  
Bill Sohl (K2UNK) BELLCORE (Bell Communications Research, Inc.)  
Morristown, NJ email via UUCP bcr!cc!whs70  
201-829-2879 Weekdays email via Internet whs70@cc.bellcore.com  
-----

Date: Fri, 22 Jan 1993 14:47:58 GMT

From: dog.ee.lbl.gov!overload.lbl.gov!agate!spool.mu.edu!howland.reston.ans.net!  
paladin.american.edu!gatech!concert!rock!taco!csemail.cropsci.ncsu.edu!  
samodena@network.UCSD.EDU

To: info-hams@ucsd.edu

References <fred-mckenzie-200193151838@k4dii.ksc.nasa.gov>,  
<1993Jan21.125436.4514@klaava.Helsinki.FI>, <fred-  
mckenzie-210193182431@k4dii.ksc.nasa.gov>sema

Subject : Re: running 300-ohm twinlead thru wood

In article <fred-mckenzie-210193182431@k4dii.ksc.nasa.gov> fred-  
mckenzie@ksc.nasa.gov (Fred McKenzie) writes:

>In article <1993Jan21.125436.4514@klaava.Helsinki.FI>,  
>stickler@klaava.Helsinki.FI (Patric M Stickler) wrote:  
>> I have a similar situation in that I intend to run 450ohm twin lead  
>> through a wooden window frame -- but will I have a problem with arcing  
>> if I'm only running 100-150 watts??  
>  
>Patrick-  
>  
>I don't have personal experience with the 450 ohm twin lead.....  
....[ deleted everything said since it was all hypothetical guesses]....  
>  
>fred-mckenzie@ksc.nasa.gov

Patrick--

I operate two vertical dipoles (40 M and 20 M) fed with 300 ohm twin



\*\*\*\*\*